

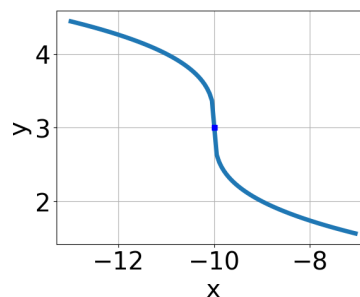
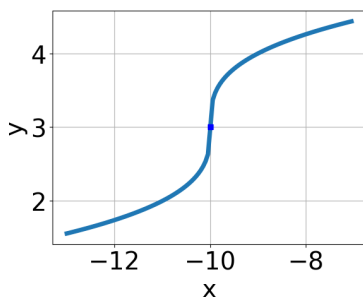
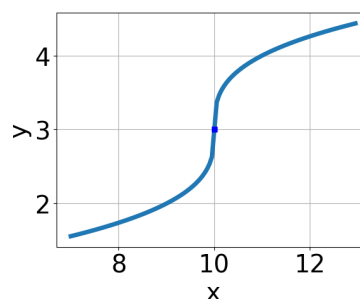
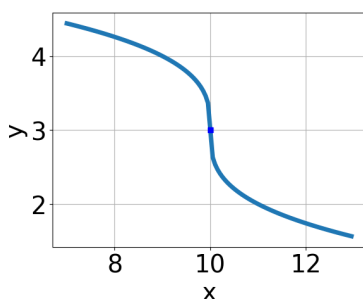
1. Solve the radical equation below. Then, choose the interval(s) that the solution(s) belongs to.

$$\sqrt{9x + 3} - \sqrt{-7x + 3} = 0$$

- A. $x \in [-0.02, 0.02]$
B. $x \in [-0.41, -0.35]$
C. $x_1 \in [-0.35, -0.28]$ and $x_2 \in [0.09, 1.35]$
D. All solutions lead to invalid or complex values in the equation.
E. $x_1 \in [-0.35, -0.28]$ and $x_2 \in [-0.71, 0.35]$
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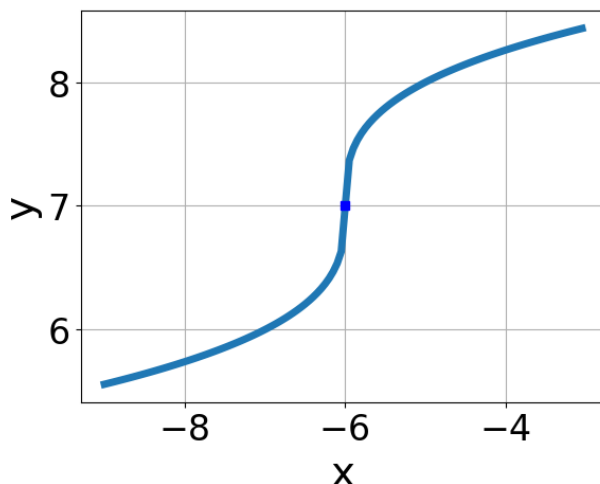
2. Choose the graph of the equation below.

$$f(x) = -\sqrt[3]{x + 10} + 3$$



- E. None of the above.
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3. Choose the equation of the function graphed below.



- A. $f(x) = -\sqrt[3]{x+6} + 7$
- B. $f(x) = -\sqrt[3]{x-6} + 7$
- C. $f(x) = \sqrt[3]{x+6} + 7$
- D. $f(x) = \sqrt[3]{x-6} + 7$
- E. None of the above

4. Solve the radical equation below. Then, choose the interval(s) that the solution(s) belongs to.

$$\sqrt{-48x^2 + 15} - \sqrt{-22x} = 0$$

- A. $x_1 \in [0.37, 0.57]$ and $x_2 \in [-0.17, 5.83]$
- B. $x_1 \in [-0.55, -0.32]$ and $x_2 \in [-0.17, 5.83]$
- C. All solutions lead to invalid or complex values in the equation.
- D. $x \in [-0.55, -0.32]$
- E. $x \in [0.38, 1.04]$

5. Solve the radical equation below. Then, choose the interval(s) that the solution(s) belongs to.

$$\sqrt{4x-7} - \sqrt{9x-2} = 0$$

- A. $x_1 \in [0.18, 0.79]$ and $x_2 \in [0.75, 4.75]$
- B. $x \in [-1.07, -0.45]$
- C. $x_1 \in [-1.07, -0.45]$ and $x_2 \in [0.75, 4.75]$
- D. All solutions lead to invalid or complex values in the equation.
- E. $x \in [-2.19, -1.77]$

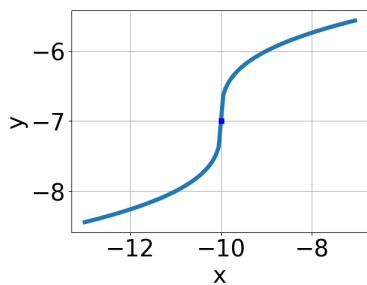
6. What is the domain of the function below?

$$f(x) = \sqrt[3]{4x + 3}$$

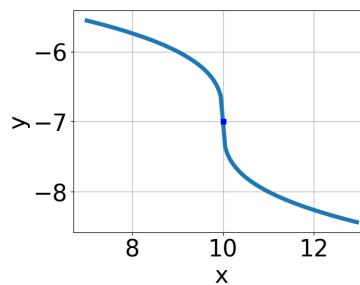
- A. The domain is $(-\infty, a]$, where $a \in [-1.5, -1.33]$
- B. $(-\infty, \infty)$
- C. The domain is $(-\infty, a]$, where $a \in [-0.77, 0.93]$
- D. The domain is $[a, \infty)$, where $a \in [-1.26, -0.5]$
- E. The domain is $[a, \infty)$, where $a \in [-1.4, -1.33]$

7. Choose the graph of the equation below.

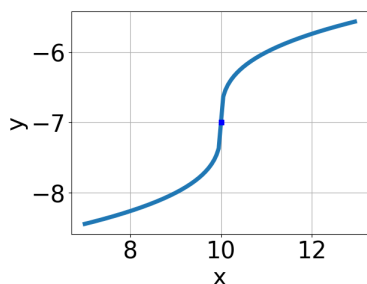
$$f(x) = \sqrt[3]{x + 10} - 7$$



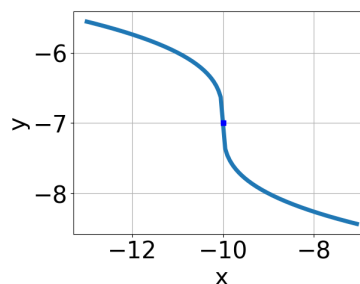
A.



C.



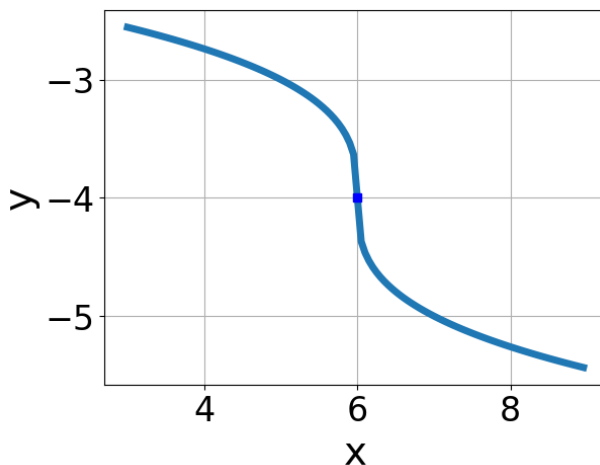
B.



D.

E. None of the above.

8. Choose the equation of the function graphed below.



- A. $f(x) = -\sqrt{x-6} - 4$
 - B. $f(x) = -\sqrt{x+6} - 4$
 - C. $f(x) = \sqrt{x+6} - 4$
 - D. $f(x) = \sqrt{x-6} - 4$
 - E. None of the above
-

9. Solve the radical equation below. Then, choose the interval(s) that the solution(s) belongs to.

$$\sqrt{36x^2 + 20} - \sqrt{-61x} = 0$$

- A. $x \in [-1.86, -0.84]$
 - B. All solutions lead to invalid or complex values in the equation.
 - C. $x \in [-0.62, -0.28]$
 - D. $x_1 \in [-1.86, -0.84]$ and $x_2 \in [-1.9, -0.4]$
 - E. $x_1 \in [-0.31, 0.87]$ and $x_2 \in [1.2, 2.2]$
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10. What is the domain of the function below?

$$f(x) = \sqrt[6]{5x + 3}$$

- A. $(-\infty, a]$, where $a \in [-1.15, 1.69]$
 - B. $(-\infty, \infty)$
 - C. $[a, \infty)$, where $a \in [-1.6, 5.4]$
 - D. $(-\infty, a]$, where $a \in [-2.34, -1.3]$
 - E. $[a, \infty)$, where $a \in [-4.67, -0.67]$
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